

ANNUAL REPORT
ON THE
URBAN SANITARY DISTRICT (OR PARISH)
OF
CARSHALTON, SURREY,
FOR THE YEAR 1895,
BY
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Medical Officer of Health.

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Prepared in accordance with Sec. 14 of the Order of the Local Government Board, dated 23rd March, 1891, regulating the duties of Medical Officers of Health.

Carshalton Urban Sanitary District.

MEDICAL OFFICERS' REPORT FOR THE YEAR 1895.

I.—Vital Statistics: Births and Deaths.

1. The *population* of the Parish in the middle of the year may be estimated at 5,650 persons.
2. The number of *Births* registered in the Parish during the year was 175, or 13 more than in the previous year. The *Birth-rate* for the year, therefore, was 30·9 per 1,000 of the estimated population.
3. The number of *Deaths* registered in the Parish during the year was 91, to which must be added 10 deaths in the Epsom Workhouse and County Asylum of persons belonging to the Parish. These 101 deaths represent an *Annual Death-rate* of 17·9 per 1,000 of the population, estimated as above.

In the other portions of the Surrey Combined Sanitary District the highest Birth-rate for the year was 26·6, and the lowest was 18·3; while the highest Death-rate was 14·8, and the lowest was 10·5.
4. As to the *Infant Mortality*. The Deaths of *Infants under one year* were 31 in number, and were equal to 17·7 per cent. of the registered births, which is much above their previous average rate in the parish.
5. The deaths from *Pulmonary Consumption* (10 in number) were at the rate of 1·8 per 1,000 of the estimated population, and were above their previous average rate in the Parish.
6. The deaths from *other Lung Diseases* (Bronchitis, Pleurisy, and Pneumonia) were 18 in number, and were at the rate of 3·2 per 1,000 of the estimated population, which is also above their previous average rate in the Parish.

(See also Tables I., II., and V. at the end of the Report.)

II.—Summary of Sickness and Mortality from the Seven Principal Zymotic Diseases, and from the other Diseases which must be notified under the Infectious Diseases (Notification) Act, 1889, and of the action taken for preventing their spread.

1. No case of *Small Pox* was reported during the year.
2. *Measles* were rather prevalent, and caused three deaths.
3. *Whooping Cough* caused no death.
4. *Scarlet Fever* (otherwise called *Scarlatina*) was notified at 10 houses, viz.: At two in January, two in February, one in April, one in August, one in September, one in October, and two in November. Six of the houses were of the better class; the remaining four were cottages in Pound Street, Nightingale Road, and Mill Lane. At three the illnesses were probably contracted out of the district. Altogether, 15 persons were known to have been attacked, of whom six were removed from one house, and one was removed from another house, to the Isolation Hospital at Sutton, and two were removed from two other houses to the London Fever Hospital at Islington. None of the illnesses ended fatally.
5. *Diphtheria*, *Croup*, and *Laryngitis*. In November four children were attacked with diphtheria in a cottage at Mill Place, Mill Lane; and in December there were four cases (one of which ended fatally) in a cottage in Station Road, Mill Lane. No other cases were heard of. No case of Membranous Croup was notified, and no death was attributed to Laryngitis.

In May, the District Council gave me permission in any doubtful case of Diphtheria, occurring in the district, to get a bacteriological examination made at their expense of the mucus on the fauces of the patient, as an aid to Diagnosis, but I did not find it necessary to avail myself of this permission during the year.
6. *Enteric* (otherwise called *Typhoid*) *Fever*. In November, a young lady living in Prince of Wales' Road, was attacked with this fever, from which she died in December. She had gone almost daily to Sutton, but the "sanitary arrangements" of the house which she there visited were found to be satisfactory, and it seemed more probable that her illness was caused by certain defects of drainage existing near the houses in Prince of Wales' Road, of which complaints had been made. The question of at once laying a sewer in this road, and of making some temporary arrangement for the treatment of the sewage, was discussed, but the estimated cost of these works was so great, that it was decided to postpone them till the rest of the district is sewered.

7. *Diarrhœa* caused five deaths, four of which were among children under five years of age.

The total *deaths* from the Seven Principal Zymotic Diseases were 10 in number, viz.: Three from Measles, one from Diphtheria, five from Diarrhœa, and one from Enteric Fever, and were at the rate of 1·8 per 1,000 of the population. In the other portions of the Surrey Combined Sanitary District the highest Zymotic Death-rate was 1·6, and the lowest was ·12.

(See also Tables III., IV., and VI. at the end of the Report.)

As regards the other infectious diseases which have to be notified under the above-mentioned Act: Three cases of *Erysipelas*, all occurring among elderly persons, were notified in three houses. No case of *Puerperal Fever* was reported.

The following is a summary of the further *action* which was taken for preventing the spread of some of these diseases:—The houses infected with Enteric Fever, Scarlet Fever, Diphtheria, or Erysipelas were visited by the Inspector and myself; isolation of the sick was inculcated; disinfectants for use during illness were supplied and their proper use explained; all nuisances and sanitary defects discovered upon the premises were remedied as far as was practicable; and, after the death, removal, or recovery, of the sick, formal notices to cleanse and disinfect the infected rooms and their contents were, in most instances, served on the owners or occupiers. From the houses of the poor, the infected bedding was removed and was disinfected by Mr. R. F. Holloway, of Hackbridge, at the expense of the District Council.

As to the *proposed Joint Isolation Hospital*, for the use of persons residing in this district and in the Sutton Urban and Epsom Rural Districts. The withdrawal of the Parish of Leatherhead from the Epsom Rural District on its formation into an Urban District, at the close of the previous year, necessitated alterations in the constitution of the Joint Hospital Board, and the Board were unable to meet until June. In July, however, they finally settled the plans of the proposed buildings and other details, and sent them to the Local Government Board for approval, together with an application for sanction to borrow the money for erecting the buildings, and for the fences, roads, drains, sewage-disposal, and other necessary works. In November the Local Government Board caused a public inquiry to be held at Sutton into the matter of the application, but had not given their decision upon it before the year closed.

III.—Summary of other Sanitary Proceedings, &c., which were taken during the year.

1. As in previous years, the Council contracted for the *removal of house refuse* from premises in their district. In April I suggested to the Council the desirability of their undertaking, or contracting for, the systematic *cleansing of Privies and Cesspools*, but they did not see their way to do so.

2. The slaughter-houses, the bakehouses, and the premises of the registered cow-keepers, dairymen, and purveyors of milk were inspected.

3. As to the *Bye-Laws* relating to new streets and buildings: The Surveyor has been good enough to inform me that—

	In 1883	In 1884	In 1885	In 1886	In 1887	In 1888	In 1889	In 1890	In 1891	In 1892	In 1893	In 1894	In 1895
The number of new buildings, and of additions to buildings, of which plans were submitted for approval under the Bye-Laws, was.....	none	41	9	12	13	9	6	10	12	13	24	54	62
The number of new streets, ditto, ditto, was	none	3	none	none	4	4	4	4	none	4	none	4	none
The number of times that legal proceedings were taken for breach of the Bye-Laws relating to streets and buildings was	none	none	none	none	none	none	none	none	none	2	none	3	none

4. *Proceedings under Secs. 150 and 152 of the Public Health Act, 1875, and under the Private Street Works Act, 1892.* The Clerk informs me that the number of streets (not being highways repairable by the inhabitants at large) which were sewered, levelled, paved, metalled, flagged, channelled, or lighted, during the year, after notice to their respective frontagers, under these Acts, with a view to their being declared to be highways, was none, as against three in 1884, two in 1886, two in 1887, four in 1888, two in 1889, four in 1890, two in 1891, three in 1892, one in 1893, and none in 1894.

5. As to *Works of Sewerage and Sewage-Disposal.* Early in the year the Council decided not to proceed further with the proposed scheme for making the necessary sewers in the district and for the disposal of the sewage on land outside their district in the Parish of Mitcham, and they afterwards instructed their Engineer (Mr. Baldwin Latham, C.E.) to report upon the cost, etc., of laying the sewers and treating the sewage on some land within their own district, which could be acquired by agreement, but this report had not been made public before the end of the year.

In April, the Council, at my suggestion, asked the Sutton Urban District Council whether, if a sewer were laid in Harold Road, they would be willing to admit the sewage from the houses in that road into their sewer, which runs near the road, with the result that terms were agreed upon, and, before the end of the year, the sewer had been laid in the road, and connected with the Sutton District Council's sewer, and that the drains of 39 of the houses had been diverted to it.

6. A systematic inspection, or house-to-house visitation, of certain parts of the district which are most in need of it, including St. James's Road, St. John's Road, St. Andrew's Road, Levett's Rents, William Street, Harold Road, Wandle Mount, and West Street Lane, was frequently made by the Inspector of Nuisances and myself, and defects of the closets, of the drainage, and of the dwellings were remedied as far as was practicable, but there are many defects there and elsewhere, which can only be effectually dealt with by the provision of the proposed sewers.

7. The following is the Sanitary Inspector's return of the *Nuisances* dealt with, and other work done, during the year ending December 31st :—

Number of Complaints received in writing ...	...	...	...	...	...	21
Number of Premises inspected under Section 92 of the Public Health Act, 1875...	...	...	...	...	...	1152
Number of Nuisances discovered ...	...	...	...	...	...	685
Ditto	remedied without being reported	...	...	...	...	163
Ditto	reported to the Sanitary Authority	...	...	...	...	472
Ditto	remedied after report	...	...	...	...	461
Number of Notices served for the Abatement of Nuisances, under Section 94	...	...	...	...	...	472

Particulars of Work done by owners or occupiers, for the Abatement of Nuisances, in compliance with notice :—

Number of privies, cesspools, ditches, pools, watercourses, urinals, ashpits, and drains, <i>cleansed</i> , and number of deposits <i>removed</i> ...	...	...	...	...	...	519
Number of old privies re-constructed as water-closets ...	...	...	...	...	...	12
Number of old privies re-constructed, with small watertight vaults or with pails ...	...	...	...	...	...	—
Number of Premises at which the drains were re-constructed, ventilated, trapped, or disconnected from the house pipes or rain-water pipes ...	...	...	...	...	...	23
Number of Premises at which new drains or cesspools were provided under Sec. 23 or Sec. 94 ...	...	...	...	...	...	43
Number of Premises from which animals, improperly kept, were removed ...	...	...	...	...	...	2
Number of Houses which were provided with efficient ventilation ...	...	...	...	...	...	—
Number of Houses at which injurious overcrowding was abated ...	...	...	...	...	...	3
Number of damp unwholesome Houses which were repaired ...	...	...	...	...	...	45
Number of filthy Houses which were cleansed and limewashed ...	...	...	...	...	...	34
Legal proceedings taken, under Sec. 96, for Abatement of Nuisances (number of times) ...	...	...	...	...	...	—
Houses condemned by the Justices as unfit for human habitation, under Sec. 97 ...	...	...	...	...	...	—

Number of Samples of Water sent to the Medical Officer of Health for Analysis ...	...	...	...	...	...	2
Number of Wells permanently or temporarily closed, after notice, under Sec. 70 of the Public Health Act, 1875, as unfit for drinking or domestic purposes ...	...	...	...	...	...	—
Number of Houses to which water was supplied by owners of premises after notice under Sec. 62 of that Act	—

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8, Altenburg Gardens, Clapham Common,
27th January, 1896.

The usual Tables are appended to the Report.

APPENDIX.

Table I.

TABLE OF DEATHS in the District during the year 1895, classified according to Diseases and Ages; and showing also the Population of the District and the Births therein during the year.

Population at all ages.		REGISTERED BIRTHS.		MORTALITY from all causes at subjoined ages.							Mortality from subjoined causes, distinguishing Deaths of Persons under 5 years of age.																			
At Census 1891.	Estimated to middle of 1895.			All ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Age.	Small Pox.	Measles.	Scarlatina.	Diphtheria.	Membranous Croup.	Whooping Cough.	Typhus.	Enteric or Typhd	Other or doubtful.	Conti. d. Fever.	Diarrhoea.	Rheumatic Fever.	Erysipelas.	Puerperal Fever.	Phthisis.	Bronchitis, Pneumonia and Pleurisy.	Heart Disease.	Injuries.	All other Diseases.
5425	5650	175	91	31	6	2	3	24	25		Under 5	3										4					7			23
											5 and upwards ..			1					1		1	1				7	9	5	1	29
											At all ages	3		1					1		5	5				7	16	5	1	52

The subjoined numbers have to be *added* to the above, in judging of the mortality in this District.

Deaths outside the District of persons belonging thereto.	10	1	2		4	3	Under 5																		1				
							5 and upwards ..																		2	2	2		3

Table II.

Shewing the estimated population, the Annual Birth-rate, and certain Death-rates, for each of the twenty-two years, 1874-95.

Years.	POPULATION estimated to middle of each year.	REGISTERED BIRTHS.		DEATHS FROM ALL CAUSES.		Deaths of Infants under 1 year.		Deaths from Pulmonary Consumption.		Deaths from other Lung Diseases.	
		Num-ber.	Rate per 1000 of the population.	Num-ber.	Rate per 1000 of the population.	Num-ber.	Per cent. to Regd. Births.	Num-ber.	Rate per 1000 of the population.	Number	Rate per 1000 of the population.
1874	4035	137	33·9	68	16·8	20	14 $\frac{1}{2}$	2	0·5	4	1·0
1875	4148	136	32·7	80	19·2	12	18 $\frac{3}{4}$	6	1·4	5	1·2
1876	4261	143	33·5	77	18·0	23	16	7	1·6	13	3·0
1877	4374	145	33·3	63	14·4	11	8	5	1·1	9	2·0
1878	4460	140	30·8	73	16·3	22	15 $\frac{3}{4}$	8	1·8	11	2·5
1879	4510	170	37·4	83	18·4	22	13	7	1·5	22	4·9
1880	4610	149	32·8	74	16·0	26	17 $\frac{1}{2}$	6	1·3	12	2·6
1881	4850	151	31·1	78	16·1	19	12 $\frac{1}{2}$	10	2·0	9	1·9
1882	4900	176	36·0	89	18·0	29	16 $\frac{1}{2}$	7	1·4	13	2·6
1883	4950	136	27·5	75	15·1	14	10 $\frac{1}{4}$	10	2·2	18	3·6
Average of 10 years.			32·7		16·8		13 $\frac{1}{4}$		1·5		2·5
1884	5000	144	28·8	71	14·2	16	13 $\frac{1}{4}$	3	0·6	10	2·3
1885	5050	152	30·2	61	12·0	20	13 $\frac{1}{4}$	5	1·0	12	2·3
1886	5100	145	28·4	71	14·0	15	10 $\frac{1}{4}$	8	1·5	13	2·5
1887	5150	144	28·0	67	12·0	13	9	5	0·9	5	0·9
1888	5200	135	26·0	77	15·0	16	12	6	1·1	12	2·2
1889	5300	180	34·0	65	12·2	21	11 $\frac{3}{4}$	6	1·1	6	1·1
1890	5400	148	27·4	83	15·4	24	16 $\frac{1}{4}$	12	2·2	14	2·6
1891	5450	167	30·6	88	16·1	16	9 $\frac{1}{2}$	8	1·5	8	1·5
1892	5500	158	29·0	84	15·3	19	12	5	·9	15	2·7
1893	5550	158	28·5	75	13·5	14	9	4	0·7	12	2·2
Average of 10 years.			29·1		14·0		11 $\frac{1}{2}$		1·2		2·0
1894	5600	162	29·0	81	14·5	23	14	2	0·4	14	2·5
1895	5650	175	31	101	17·9	31	17 $\frac{3}{4}$	10	1·8	18	3·2

N.B.—The deaths of parishioners in the Workhouse are included in this table.

Table III.

Showing the Sickness and Mortality recorded in the district from the under-mentioned Zymotic Diseases in each month of the year 1895, and in the eighteen preceding years.

1895.	Small Pox.			Scarlet Fever.			Diphtheria.			Enteric (or Typhoid) Fever.		
	Cases	Houses	Deaths	Cases	Houses	Deaths	Cases	Houses	Deaths	Cases	Houses	Deaths
January				7	2							
February				2	2							
March												
April				1	1							
May												
June												
July												
August				1	1							
September				1	1							
October				1	1							
November				2	2		4	1		1	1	
December							4	1	1	1	1	1
TOTAL IN 1895				15	10		8	2	1	1	1	1
TOTAL IN 1894				6	6		1	1		5	5	1
TOTAL IN 1893				25	16					3	3	
TOTAL IN 1892				4	4							
TOTAL IN 1891				5	4		8	5	2	2	2	1
TOTAL IN 1890				22	8		16	10	1	4	3	
TOTAL IN 1889				5	1		1	1	1	1	1	
TOTAL IN 1888												
TOTAL IN 1887				14	7					1	1	1
TOTAL IN 1886				7	3		1	1		7	6	
TOTAL IN 1885				1	1		2	2		1	1	
TOTAL IN 1884	1	1		6	5		4	2	1	12	8	2
TOTAL IN 1883				4	4		2	1		1	1	1
TOTAL IN 1882	8	7	1	43	23	1						
TOTAL IN 1881	3	3		35	23	8	1	1		1	1	
TOTAL IN 1880				14	3		1	1	1	1	1	
TOTAL IN 1879							1	1	1	2	2	
TOTAL IN 1878							6	4	3	3	3	2
TOTAL IN 1877	1	1		10	3							

Table IV.

Showing the number of Deaths in the District from each of the seven principal Zymotic Diseases during the twenty-two years, 1874—95, and the Zymotic Death-rate for each of those years.

Year.	Small Pox.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	CONTINUED FEVER.				Diarrhoea.	TOTAL.	
						Typhus	Enteric or Typhoid	Other kinds.			Number.	Rate per 1000 of the population.
1874	..	5	..	1	4	..	..	..		2	12	3.
1875	18	..	1	..	1	..		..	20	5.3
1876	..	6	8	..	2	..	3	..		4	23	5.4
1877		1	1	0.2
1878	3	1	..	2	..		4	10	2.2
1879	1	4	..	..	..		..	5	1.1
1880	1	9	..	..	..		2	12	2.6
1881	..	2	8	..	2	..	..	..		3	15	3.1
1882	1	6	1	..	1	..	..	..		2	12	2.4
1883	..	1	..	..	..	..	1	..		2	4	0.8
1884	..	2	..	1	3	..	2	..		1	9	1.8
1885	..	2	..	..	..	..	..	..		2	4	0.8
1886	..	8	..	..	6	..	..	..		1	15	3.0
1887	1	..		2	3	.6
1888	..	1	..	..	..	..	..	..		3	4	.8
1889	..	2	..	1	5	..	..	..		..	8	1.5
1890	2	1	2	..	..	1		2	8	1.5
1891	..	6	..	2	..	..	1	..		1	10	1.8
1892	1	..	..	..		1	2	.4
1893	4	..	..	..		3	7	1.3
1894	..	8	..	..	..	..	1	..		..	9	1.6
1895	..	3	..	1	..	..	1	..		5	10	1.8

TABLE V.—Showing certain DEATH RATES, and the BIRTH RATES, for the Year, 1895, in each Rural and Urban District of the Surrey combined Sanitary District.

SANITARY DISTRICTS.	Estimated Population at middle of 1895.	BIRTHS. — Rate per 1,000 of the Population.	ANNUAL RATE OF MORTALITY per 1,000 of the POPULATION, from				Per centage of Deaths under One Year to Registered Births.	NUMBER OF DEATHS FROM							
			ALL CAUSES.	The 7 principal Zymotic Diseases.	Pulmonary Consumption.	Other Lung Diseases.		Small Pox.	Measles.	Scarlatina.	Diphtheria.	Membranous Croup.	Whooping Cough.	Fevers.	Diarrhœa.
CHERTSEY RURAL	10,690	26·0	13·7	1·6	0·7	2·0	9·3		1		2		9		5
CHERTSEY URBAN	12,200	26·6	14·8	1·1	1·7	4·9	17·3		4		1		3	1	5
WEYBRIDGE URBAN	4,300	25·1	10·9	0·23	0·7	1·9	8·3				1				
WALTON URBAN	8,580	24·0	13·5	0·8	0·8	3·5	9·2		1	1	1		2	1	1
DORKING RURAL	10,570	18·3	12·4	0·66	0·95	2·4	7·2		3		2		2		
DORKING URBAN	7,400	23·5	12·3	0·4	1·1	2·3	5·2				2		1		
EPSOM RURAL	16,200*	23·3	13·0	0·56	1·2	2·0	9·8		1	1	1	1		1	5
EPSOM URBAN	8,700	24·7	13·8	0·12	1·5	2·9	8·4				1				
CARSHALTON URBAN	5,650	30·9	17·9	1·8	1·8	3·2	17·7		3		1			1	5
SUTTON URBAN	13,300*	24·0	10·5	0·3	0·75	2·2	7·0				1		1	1	1
LEATHERHEAD URBAN	4,680	22·2	10·8	0·43	1·5	2·8	6·7				2	1			
REIGATE RURAL	14,760	24·0	12·9	0·68	0·61	3·0	7·1			1	4			1	4
REIGATE URBAN	23,600*	22·0	13·4	0·97	0·97	2·7	10·4		6		2		2	1	12
ENTIRE DISTRICT	140,630	23·8	13·1	0·76	1·06	2·76	9·8	—	19	3	21	2	20	7	38

* NOTE.—The Population and Deaths at the Banstead Asylum and at the Kensington and Chelsea District Schools, in the Epsom Rural District; at the South Metropolitan District Schools, in the Sutton Urban District; and at the Earlswood Asylum, in the Reigate Urban District, have been excluded from the Table. The Deaths in the Chertsey, Dorking, Epsom, and Reigate Workhouses and Cottage Hospitals of persons belonging to the adjoining Rural Sanitary Districts have been transferred to those Districts.

TABLE VI.—Shewing the **NEW CASES OF INFECTIOUS SICKNESS**, coming to the knowledge of the Medical Officer of Health during the years 1895, 1894. and 1893, in the undermentioned Sanitary Districts.

SANITARY DISTRICTS.	Aged under 5 or over 5.	NEW CASES OF SICKNESS IN EACH DISTRICT, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH.											NUMBER OF SUCH CASES REMOVED FROM THEIR HOMES IN THE SEVERAL DISTRICTS FOR TREATMENT IN ISOLATION HOSPITAL.			
		Smallpox.	Scarlatina.	Diphtheria.	Membranous Croup.	FEVERS.						Erysipelas.	Smallpox.	Scarlatina.	Diphtheria.	Enteric Fever.
						Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.					
CHERTSEY RURAL	Under 5		4	7	1							2		1	4	
	5 upwards		10	23			5					4		6	16	
CHERTSEY URBAN	Under 5			4	1										2	
	5 upwards		11	13			6			2		10		7	4	
WEYBRIDGE URBAN	Under 5		4	1										4		
	5 upwards		22				3					4		17		
WALTON URBAN	Under 5		2	1			1					1		2		
	5 upwards		9	7			4					1		9	5	
EPSOM URBAN	Under 5		10	2										10	2	
	5 upwards		13	3			1			2		3		10	2	
SUTTON URBAN	Under 5		2	1				1								
	5 upwards		18	7			10	2				8		13		
CARSHALTON URBAN	Under 5		1	1										1		
	5 upwards		14	7			1					3		6		
EPSOM RURAL	Under 5		7	1								1		4		
	5 upwards		42	9	1		7			2		8		16	6	3
LEATHERHEAD URBAN	Under 5			7												
	5 upwards		3	2								2		2		
DORKING RURAL	Under 5		1													
	5 upwards		19	4			1					6				
DORKING URBAN	Under 5		3	1				1				1				
	5 upwards		10	8			1					3				
REIGATE RURAL	Under 5		4	1										1	1	
	5 upwards		13	9			6			2		15		11	1	
REIGATE URBAN	Under 5		12	1										8		
	5 upwards		37	20			6					10		25	1	
TOTALS IN 1895	Under 5		50	28	2		1	2				5		31	9	
	5 upwards		221	112	1		51	2		8		77		122	35	3
TOTALS IN 1894	Under 5		60	27	11		2	1				6		29	7	
	5 upwards	3	267	100	1		48	2		10		109	1	139	24	4
TOTALS IN 1893	Under 5		107	33	20		5					14		38	3	
	5 upwards	31	735	145	4		66	2		18		168	12	256	15	1